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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,587	05/15/2004	Lennart Arvidsson	7589.166.PCUS00	1560	
28694	7590 02/10/2005		EXAM	EXAMINER	
TRACY W. DRUCE, ESQ.			BROADHEAD, BRIAN J		
NOVAK DF 1615 L STR	RUCE & QUIGG LLP EET NW		ART UNIT	PAPER NUMBER	
SUITE 850			3661		
WASHINGTON, DC 20036			DATE MAILED: 02/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
	Office Action Summary	10/709,5	37	ARVIDSSON, LENNART				
<b>Y</b> 01		Examine	,	Art Unit				
		Brian J. B		3661				
The Period for Rep	MAILING DATE of this communicative	ation appears on the	cover sheet with the c	correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status				÷				
1)⊠ Resp	1) Responsive to communication(s) filed on <u>07 September 2004</u> .							
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
	,—							
Disposition of	Claims			-				
4a) Of 5) ☐ Claim 6) ☑ Claim 7) ☐ Claim	f the above claim(s) is/are pending in the apple the above claim(s) is/are allowed.  f(s) is/are allowed.  f(s) is/are rejected.  f(s) is/are objected to.  f(s) are subject to restriction	withdrawn from co						
Application Pa	pers							
10)⊠ The di Applic Replac	pecification is objected to by the I rawing(s) filed on 15 May 2004 is ant may not request that any objection cement drawing sheet(s) including that or declaration is objected to be	dare: a)⊠ accepte on to the drawing(s) be the correction is requir	ne held in abeyance. See ned if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 Cl	, ,			
Priority under	35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
	erences Cited (PTO-892) ftsperson's Patent Drawing Review (PTC	)-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information D	isclosure Statement(s) (PTO-1449 or PT Mail Date		5) Notice of Informal P 6) Other:		<b>)-152)</b>			

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### **DETAILED ACTION**

## Claim Objections

- 1. Claim 1 is objected to because of the following informalities: On line 7, the "-" is unnecessary. Appropriate correction is required.
- 2. Claim 7 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The limitation of "continuously synchronized" fails to further limit claim 1, which already recited the heading sensor as being synchronized.

## Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 7 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification mentions both a synchronized secondary heading sensor and a continuously synchronized heading sensor, but the differences between the two are never disclosed.

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5. Claims 17 through 20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 17 recites the limitation "translating the relative orientation of the remote control device into coincidence with the orientation of the watercraft". This limitation runs counter to the description of the invention where in paragraph 31 the position of the steering input manipulator relative to the reference heading is used to determine the desired direction of travel. The "relative orientation of the remote control device" is not described and it is not clear how, once the orientation of the remote control device is made coincident with the orientation of the watercraft, to correctly control the movement of the watercraft. How is it determined which direction is the operator's desired direction? The description of the invention seems to make it clear that remote control device orientation shouldn't matter when controlling the watercraft. All that matters is the manipulator's angle with respect to the reference heading.

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- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1 through 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 8. Claim 1 recites the limitation "the desired direction of travel" in line 15. There is insufficient antecedent basis for this limitation in the claim.

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9. Claim 5 recites the limitation "the inclination direction" in line 3. There is insufficient antecedent basis for this limitation in the claim.

- 10. Claims 2-4 and 6 through 16 are rejected for being dependant on a rejected claim.
- 11. Claims 1 through 16 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: With respect to claim 1, how does the active position of the steering input manipulator determine the desired direction of travel of the vehicle regardless of the orientation of the remote control unit relative to the main axis of the vehicle? For instance, is the desired direction of travel of the vehicle now the angle of the manipulator with respect to the reference heading? The steering input data has the relative position of the relative positions.

#### Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

13.	Freeman	6697715	Feb. 24, 2004
14.	Walker	5874942	Feb. 23, 1999
15.	Fernandes	4818990	April 4, 1989
16.	Rios	6694228	Feb. 17, 2004

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17. Okamoto et al. 3935645 Feb. 3, 1976

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Broadhead whose telephone number is 703-308-9033. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 703-305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BIB

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